

CD54HC153, CD74HC153, CD54HCT153

Data sheet acquired from Harris Semiconductor

September 1997 - Revised October 2003

High-Speed CMOS Logic Dual 4- to 1-Line Selector/Multiplexer

Features

- Common Select Inputs
- · Separate Enable Inputs
- · Buffered inputs and Outputs
- Fanout (Over Temperature Range)
 - Standard Outputs......10 LSTTL Loads
 - Bus Driver Outputs 15 LSTTL Loads
- Wide Operating Temperature Range . . . -55°C to 125°C
- Balanced Propagation Delay and Transition Times
- Significant Power Reduction Compared to LSTTL Logic ICs
- HC Types
 - 2V to 6V Operation
 - High Noise Immunity: N_{IL} = 30%, N_{IH} = 30% of V_{CC} at V_{CC} = 5V
- HCT Types
 - 4.5V to 5.5V Operation
 - Direct LSTTL Input Logic Compatibility,
 V_{IL}= 0.8V (Max), V_{IH} = 2V (Min)
 - CMOS Input Compatibility, I_I \leq 1 μ A at V_{OL}, V_{OH}

Description

The 'HC153 and 'HCT153 are dual 4- to 1-line selector/multiplexers that select one of four sources for each section by the common select inputs, S0 and S1. When the enable inputs $(1\overline{E}, 2\overline{E})$ are HIGH, the outputs are in the LOW state

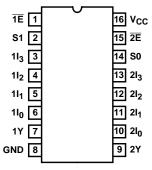
Ordering Information

PART NUMBER	TEMP. RANGE (^O C)	PACKAGE
CD54HC153F3A	-55 to 125	16 Ld CERDIP
CD54HCT153F3A	-55 to 125	16 Ld CERDIP
CD74HC153E	-55 to 125	16 Ld PDIP
CD74HC153M	-55 to 125	16 Ld SOIC
CD74HC153MT	-55 to 125	16 Ld SOIC
CD74HC153M96	-55 to 125	16 Ld SOIC
CD74HCT153E	-55 to 125	16 Ld PDIP
CD74HCT153M	-55 to 125	16 Ld SOIC
CD74HCT153MT	-55 to 125	16 Ld SOIC
CD74HCT153M96	-55 to 125	16 Ld SOIC

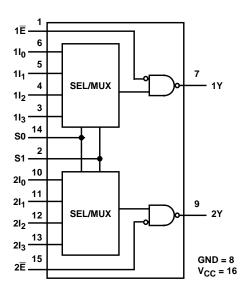
NOTE: When ordering, use the entire part number. The suffix 96 denotes tape and reel. The suffix T denotes a small-quantity reel of 250.

Pinout

CD54HC153, CD54HCT153 (CERDIP) CD74HC153, CD74HCT153 (PDIP, SOIC) TOP VIEW



Functional Diagram



TRUTH TABLE

SELECT	INPUTS		DATA I	NPUTS		ENABLE	OUTPUT	
S1	S0	10 I ₁		l ₂	l ₃	Ē	Y	
Х	Х	Х	Х	Х	Х	Н	L	
L	L	L	Х	Х	Х	L	L	
L	L	Н	Х	Х	Х	L	Н	
L	Н	Х	L	Х	Х	L	L	
L	Н	Х	Н	Х	Х	L	Н	
Н	L	Х	Х	L	Х	L	L	
Н	L	Х	Х	Н	Х	L	Н	
Н	Н	Х	Х	Х	L	L	L	
Н	Н	Х	Х	Х	Н	L	Н	

H = High Voltage Level, L = Low Voltage Level, X = Don't Care NOTE: Select inputs S1 and S0 are common to both sections.

Absolute Maximum Ratings

Thermal Information

Thermal Resistance (Typical, Note 1)	θ_{JA} (°C/W)
E (PDIP) Package	67
M (SOIC) Package	
Maximum Junction Temperature	150 ⁰ C
Maximum Storage Temperature Range	65°C to 150°C
Maximum Lead Temperature (Soldering 10s)	300°C
(SOIC - Lead Tips Only)	

Operating Conditions

Temperature Range (T _A)55°C to 125°C
Supply Voltage Range, V _{CC}
HC Types2V to 6V
HCT Types
DC Input or Output Voltage, V _I , V _O
Input Rise and Fall Time
2V
4.5V 500ns (Max)
6V

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

NOTE:

1. The package thermal impedance is calculated in accordance with JESD 51-7.

DC Electrical Specifications

		TE: CONDI		v _{cc}		25°C		-40°C 1	O 85°C	-55°C TO 125°C		
PARAMETER	SYMBOL	V _I (V)	I _O (mA)	(V)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNITS
HC TYPES							-	-				
High Level Input	V _{IH}	-	-	2	1.5	-	-	1.5	-	1.5	-	V
Voltage				4.5	3.15	•	-	3.15	-	3.15	-	V
				6	4.2	-	-	4.2	-	4.2	-	V
Low Level Input	V _{IL}	-	-	2	-	-	0.5	-	0.5	-	0.5	V
Voltage				4.5	-	-	1.35	-	1.35	-	1.35	V
				6	-	-	1.8	-	1.8	-	1.8	V
High Level Output	VoH	V _{IH} or V _{IL}	-0.02	2	1.9	-	-	1.9	-	1.9	-	V
Voltage CMOS Loads			-0.02	4.5	4.4	-	-	4.4	-	4.4	-	V
OWOO LOAGS			-0.02	6	5.9	-	-	5.9	-	5.9	-	V
High Level Output	7		-	-	-	-	-	-	-	-	-	V
Voltage TTL Loads			-4	4.5	3.98	-	-	3.84	-	3.7	-	V
TTE Edad3			-5.2	6	5.48	-	-	5.34	-	5.2	-	V
Low Level Output	V _{OL}	V _{IH} or V _{IL}	0.02	2	-	-	0.1	-	0.1	-	0.1	V
Voltage CMOS Loads			0.02	4.5	-	-	0.1	-	0.1	-	0.1	V
OWOO LOAGS			0.02	6	-	-	0.1	-	0.1	-	0.1	V
Low Level Output	7		-	-	-	-	-	-	-	-	-	V
Voltage TTL Loads			4	4.5	-	-	0.26	-	0.33	-	0.4	V
I I L LUaus			5.2	6	-	-	0.26	-	0.33	-	0.4	V
Input Leakage Current	IĮ	V _{CC} or GND	-	6	-	-	±0.1	-	±1	-	±1	μА
Quiescent Device Current	lcc	V _{CC} or GND	0	6	-	-	8	-	80	-	160	μА

DC Electrical Specifications (Continued)

		TE: CONDI	_	Vcc		25°C		-40°C 1	O 85°C	-55°C T	O 125°C	
PARAMETER	SYMBOL	V _I (V)	I _O (mA)	(S)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNITS
HCT TYPES	-		-		-	-	-	-	-			
High Level Input Voltage	V _{IH}	-	-	4.5 to 5.5	2	-	-	2	-	2	-	V
Low Level Input Voltage	V _{IL}	-	-	4.5 to 5.5	-	-	0.8	-	0.8	-	0.8	V
High Level Output Voltage CMOS Loads	Voн	V _{IH} or V _{IL}	-0.02	4.5	4.4	-	-	4.4	-	4.4	-	V
High Level Output Voltage TTL Loads			-4	4.5	3.98	-	-	3.84	-	3.7	-	V
Low Level Output Voltage CMOS Loads	V _{OL}	V _{IH} or V _{IL}	0.02	4.5	-	-	0.1	-	0.1	-	0.1	V
Low Level Output Voltage TTL Loads			4	4.5	-	-	0.26	-	0.33	-	0.4	V
Input Leakage Current	lį	V _{CC} and GND	0	5.5	-	-	±0.1	-	±1	-	±1	μΑ
Quiescent Device Current	Icc	V _{CC} or GND	0	5.5	-	-	8	-	80	-	160	μΑ
Additional Quiescent Device Current Per Input Pin: 1 Unit Load	ΔI _{CC} (Note 2)	V _{CC} -2.1	-	4.5 to 5.5	-	100	360	-	450	-	490	μΑ

NOTE:

HCT Input Loading Table

INPUT	UNIT LOADS
Data	0.45
Enable	0.6
Select	1.35

NOTE: Unit Load is Δl_{CC} limit specified in DC Electrical Table, e.g. 360µA max at 25°C.

Switching Specifications Input t_r , t_f = 6ns

		TEST	v _{cc}		25°C			С ТО °С		C TO 5°C	
PARAMETER	SYMBOL	CONDITIONS	(V)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNITS
HC TYPES											
Propagation Delay (Figure 1)	t _{PLH} ,	C _L = 50pF	2	-	-	160	-	200	-	240	ns
S to Y	tPHL	^t PHL	4.5	-	-	32	-	40	-	48	ns
		C _L =15pF	5	-	13	-	-	-	-	-	ns
		C _L = 50pF	6	-	-	27	-	34	-	41	ns

^{2.} For dual-supply systems theoretical worst case ($V_I = 2.4V$, $V_{CC} = 5.5V$) specification is 1.8mA.

Switching Specifications Input t_r , $t_f = 6ns$ (Continued)

		TEST	v _{cc}		25°C			С ТО °С		C TO 5°C	
PARAMETER	SYMBOL	CONDITIONS	(V)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNITS
I to Y	t _{PLH} ,	C _L = 50pF	2	-	-	145	-	180	-	220	ns
	tPHL		4.5	-	-	29	-	36	-	44	ns
		C _L =15pF	5	-	12	-	-	-	-	-	ns
		C _L = 50pF	6	-	-	25	-	31	-	38	ns
E to Y	t _{PLH,}	C _L = 50pF	2	-		120	-	150	-	180	ns
	tPHL		4.5	-		24	-	30	-	36	ns
		C _L =15pF	5	-	9	-	-	-	-	-	ns
		C _L = 50pF	6	-	-	20	-	26	-	31	ns
Output Transition Time	t _{TLH} , t _{THL}	C _L = 50pF	2	-	-	75	-	95	-	110	ns
(Figure 1)			4.5	-	-	15	-	19	-	22	ns
			6	-	-	13	-	16	-	19	ns
Input Capacitance	C _{IN}	-	-	-	-	10	-	10	-	10	pF
Power Dissipation Capacitance (Notes 3, 4)	C _{PD}	-	5	-	45	-	-	-	-	-	pF
HCT TYPES											
Propagation Delay (Figure 2) S to Y	t _{PLH} , t _{PHL}	C _L = 50pF	4.5	-	-	34	-	43	-	51	ns
		C _L =15pF	5	-	14	-	-		-	-	ns
I to Y	t _{PLH} ,	C _L = 50pF	4.5	-	-	24	-	30	-	36	ns
	t _{PHL}	C _L =15pF	5	-	9	-	-	-	-	-	ns
I to Y	t _{PLH} ,	C _L = 50pF	4.5	-		34	-	43	-	51	ns
	t _{PHL}	C _L =15pF	5	-	14	-	-	-	-	-	ns
E to Y	t _{PLH} ,	C _L = 50pF	4.5	-	-	27	-	34	ı	41	ns
	t _{PHL}	C _L =15pF	5	-	11	-	1		1	-	ns
Output Transition Time	t _{TLH} , t _{THL}	C _L = 50pF	4.5	-	-	15	-	19	ı	22	ns
Input Capacitance	C _{IN}	-	-	-	-	10	-	10	-	10	pF
Power Dissipation Capacitance (Notes 3, 4)	C _{PD}	-	5	-	45	-	-	-	-	-	pF

- 3. C_{PD} is used to determine the dynamic power consumption, per multiplexer. 4. $P_D = V_{CC}^2 f_i (C_{PD} + C_L)$ where f_i = Input Frequency, C_L = Output Load Capacitance, V_{CC} = Supply Voltage.

Test Circuit and Waveform

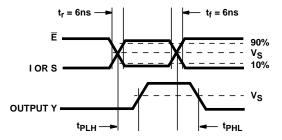


FIGURE 1. PROPAGATION DELAY TIMES



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PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
5962-9050501MEA	ACTIVE	CDIP	J	16	1	TBD	Call TI	Call TI	
CD54HC153F3A	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	
CD54HCT153F3A	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	
CD74HC153E	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
CD74HC153EE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
CD74HC153M	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC153M96	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC153M96E4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC153M96G4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC153ME4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC153MG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC153MT	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC153MTE4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HC153MTG4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT153E	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
CD74HCT153EE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
CD74HCT153M	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT153M96	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT153M96E4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT153M96G4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	





5-Sep-2011

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
CD74HCT153ME4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT153MG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT153MT	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT153MTE4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
CD74HCT153MTG4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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OTHER QUALIFIED VERSIONS OF CD54HC153, CD54HCT153, CD74HC153, CD74HCT153:





www.ti.com 5-Sep-2011

● Catalog: CD74HC153, CD74HCT153

• Military: CD54HC153, CD54HCT153

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications



TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device	Package Type	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CD74HC153M96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
CD74HCT153M96	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1





*All dimensions are nominal

Device	Package Type	Package Drawing	Pins SPQ		Length (mm)	Width (mm)	Height (mm)	
CD74HC153M96	SOIC	D	16	2500	333.2	345.9	28.6	
CD74HCT153M96	SOIC	D	16	2500	333.2	345.9	28.6	

14 LEADS SHOWN



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDS0-G16)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AC.



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